

Health Indicators and Risk Estimates by
Community Health Assessment Geographic Area
&
Local Health Departments

Michigan Behavioral Risk Factor Survey

1999-2003

Selected Tables

Division of Epidemiology Services
Bureau of Epidemiology
Michigan Department of Community Health

Preface

The Michigan Behavioral Risk Factor Survey (BRFS) is a statewide, random-digit dialed telephone survey of adult residents aged 18 years and older. State-specific, population-based prevalence estimates and confidence interval limits of health behaviors and chronic conditions are calculated yearly. Region-specific and local health department-specific prevalence rates are also computed using five years of combined data.

A combined 1999-2003 Michigan BRFS dataset maximized the available sample size and was used to calculate the prevalence estimates by Community Health Assessment Region (CHAR) and Local Health Department (LHD). The 1999-2003 estimates, which are presented in the following tables, have been weighted to adjust for the probabilities of selection, and a post-stratification weighting factor that adjusts for the distribution of Michigan adults by age, sex, and race/ethnicity at the state level. Data that were not collected annually, such as cancer screening, may contain data from 1998; these are noted in the tables. No additional weighting factors have been computed for the regional or local health department level.

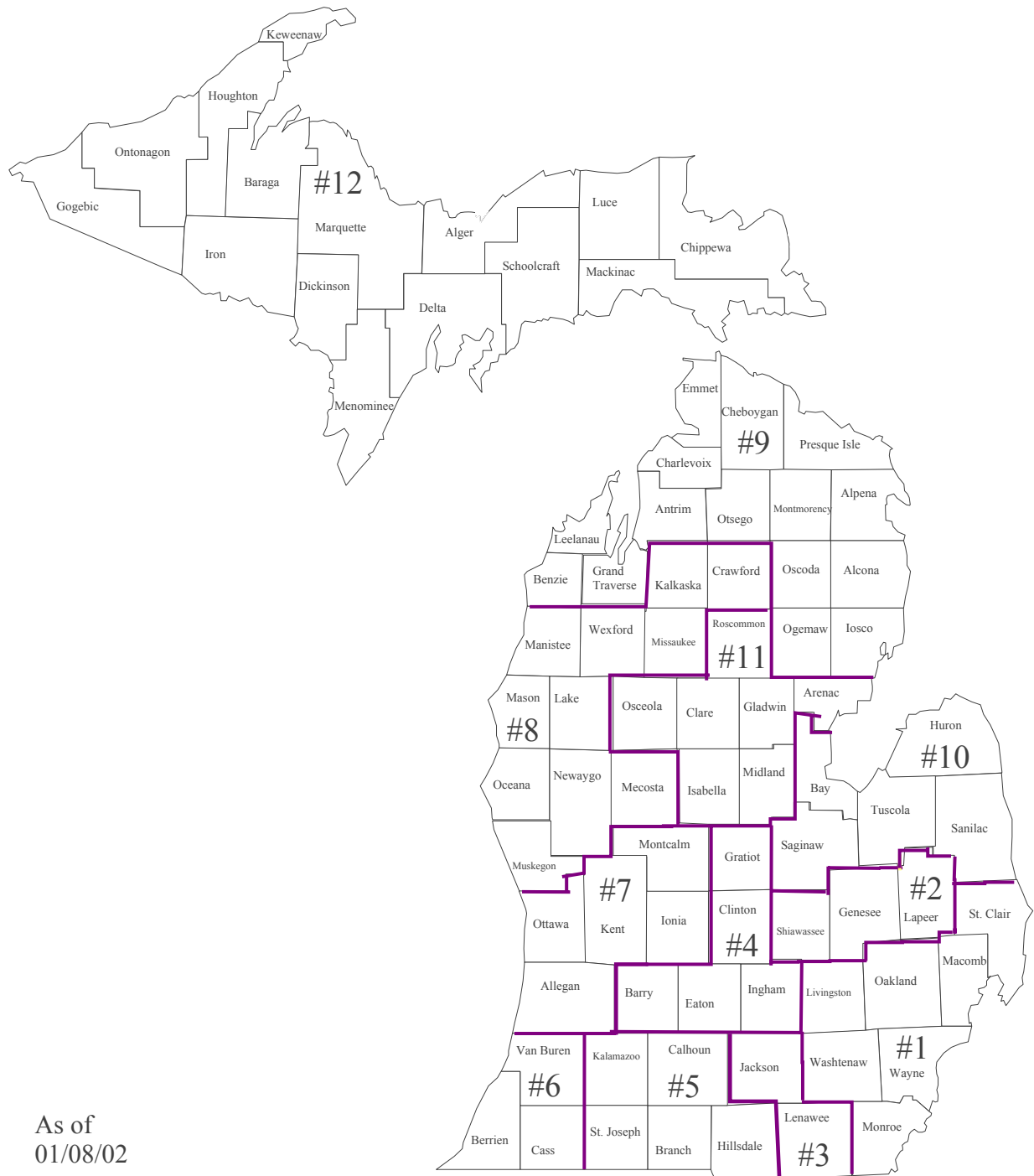
If you have any questions about these data, please contact Michelle L. Cook, MDCH at CookM1@michigan.gov.

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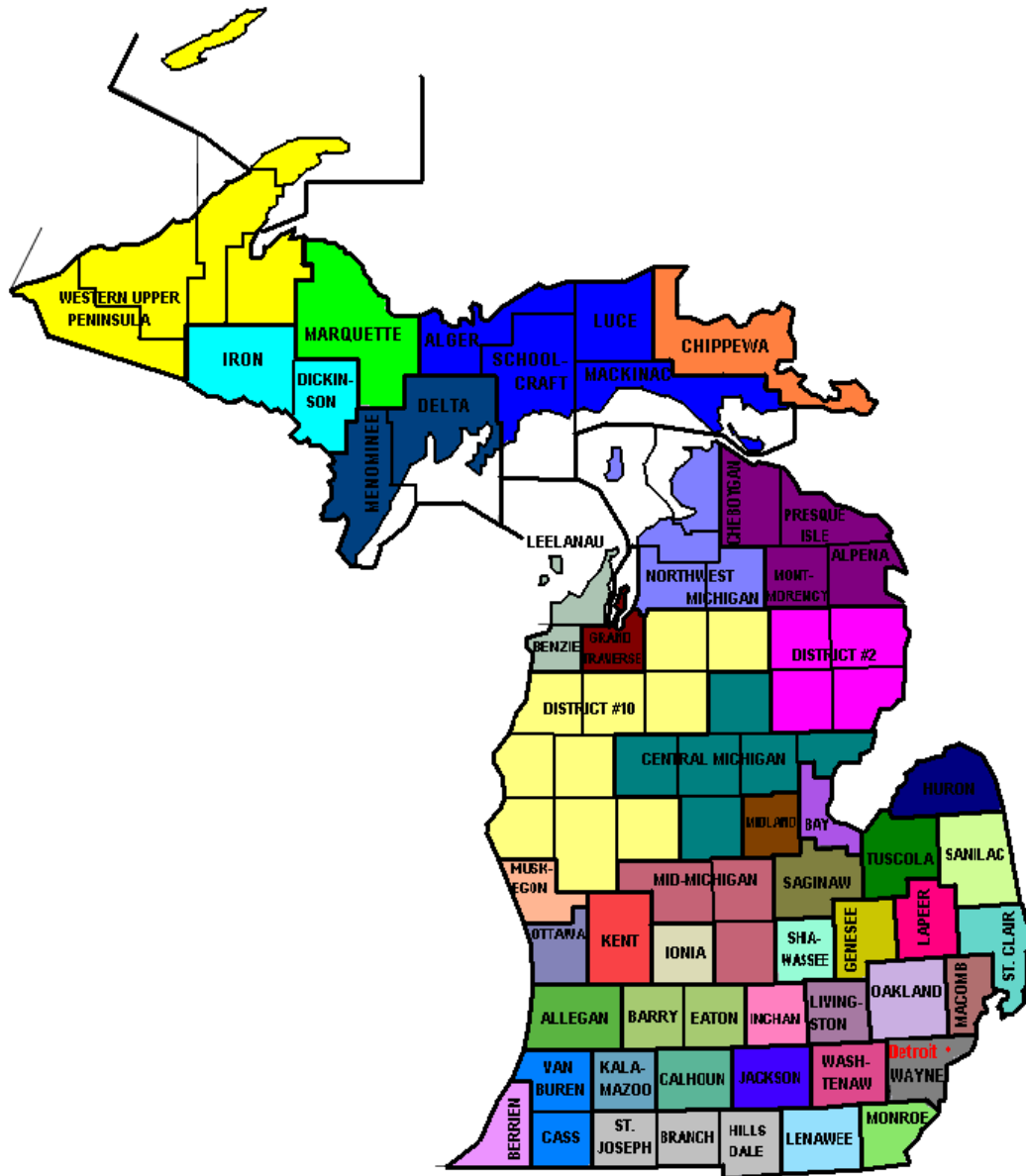
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Community Health Assessment and Improvement Region State of Michigan



As of
01/08/02

Local Health Departments State of Michigan



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Table 1: Health Status by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% \pm 95% Confidence Intervals)	
Geographic Area	General Health, Fair or Poor^a
Michigan Total	13.9 \pm 0.6
Region 1	14.0 \pm 0.9
Livingston	5.1 \pm 2.6
Macomb	13.3 \pm 2.3
Monroe	11.0 \pm 4.8
Oakland	11.6 \pm 1.6
St. Clair	14.9 \pm 4.4
Washtenaw	8.0 \pm 2.5
City of Detroit	22.0 \pm 2.8
Wayne exc. Detroit	14.1 \pm 2.0
Region 2	14.5 \pm 2.5
Genesee	14.8 \pm 3.0
Lapeer	12.8 \pm 5.4
Shiawassee	14.6 \pm 6.3
Region 3	14.5 \pm 3.6
Jackson	16.5 \pm 4.9
Lenawee	11.9 \pm 5.4
Region 4	11.6 \pm 1.9
Barry-Eaton	13.3 \pm 4.1
Mid-Michigan ^b	16.9 \pm 4.0
Ingham	10.5 \pm 2.5
Region 5	14.4 \pm 2.5
Branch-Hillsdale-St. Joseph	14.5 \pm 4.6
Calhoun	18.2 \pm 5.1
Kalamazoo	12.1 \pm 3.4

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Table 1 Cont'd	
Geographic Area	General Health, Fair or Poor^a
Michigan Total	13.9 ± 0.6
Region 6	13.0 ± 3.1
Van Buren-Cass	14.1 ± 4.6
Berrien	12.1 ± 4.1
Region 7	11.5 ± 1.4
Allegan	7.8 ± 3.4
Ionia	14.4 ± 7.4
Kent	11.4 ± 1.8
Mid-Michigan ^b	16.9 ± 4.0
Ottawa	8.2 ± 2.7
Region 8	14.0 ± 2.6
District #10	15.6 ± 3.4
Muskegon	11.8 ± 3.9
Region 9	15.2 ± 2.5
District #2	20.8 ± 6.2
District #4	18.8 ± 5.9
Northwest Michigan	14.4 ± 4.8
Benzie-Leelanau	7.3 ± 5.5
Grand Traverse	10.3 ± 4.6
Region 10	16.2 ± 2.7
Bay	18.2 ± 5.9
Huron	14.7 ± 7.9
Saginaw	17.1 ± 4.2
Sanilac	13.1 ± 8.0
Tuscola	13.5 ± 6.3
Region 11	15.9 ± 3.0
Central Michigan	19.3 ± 4.1
Midland	9.0 ± 3.3

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Table 1 Cont'd	
Geographic Area	General Health, Fair or Poor^a
Michigan Total	13.9 ± 0.6
Region 12	15.5 ± 2.9
Luce-Mackinac-Alger-Schoolcraft	15.5 ± 8.2
Western Upper Peninsula	18.5 ± 6.8
Delta-Menominee	14.7 ± 6.4
Chippewa	22.0 ± 9.7
Dickinson-Iron	14.3 ± 7.2
Marquette	9.6 ± 4.9
^a The proportion who reported that their health, in general, was fair or poor. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 2: Health Care Coverage
Among Adults 18 - 64 Years of Age
by Community Health Assessment Region
& Local Health Department

Michigan BRFS 1999-2003
 (% \pm 95% Confidence Intervals)

Geographic Area	No Health Care Coverage^a
Michigan Total	11.6 \pm 0.6
Region 1	11.0 \pm 1.0
Livingston	8.6 \pm 4.4
Macomb	11.3 \pm 2.7
Monroe	8.6 \pm 5.3
Oakland	7.4 \pm 1.7
St. Clair	9.1 \pm 4.1
Washtenaw	8.3 \pm 3.0
City of Detroit	18.0 \pm 3.1
Wayne exc. Detroit	11.3 \pm 2.2
Region 2	11.8 \pm 2.7
Genesee	14.1 \pm 3.4
Lapeer	6.1 \pm 4.1
Shiawassee	6.2 \pm 5.4
Region 3	11.5 \pm 4.0
Jackson	10.9 \pm 4.9
Lenawee	12.2 \pm 6.4
Region 4	8.8 \pm 2.1
Barry-Eaton	7.4 \pm 4.2
Mid-Michigan ^b	10.1 \pm 3.6
Ingham	8.7 \pm 3.0
Region 5	13.2 \pm 2.9
Branch-Hillsdale-St. Joseph	15.7 \pm 5.8
Calhoun	17.6 \pm 6.5
Kalamazoo	8.7 \pm 3.5

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Table 2 Cont'd	
Geographic Area	No Health Care Coverage^a
Michigan Total	11.6 ± 0.6
Region 6	12.6 ± 4.1
Van Buren-Cass	9.5 ± 5.0
Berrien	15.1 ± 6.1
Region 7	9.4 ± 1.5
Allegan	13.0 ± 5.8
Ionia	6.2 ± 4.6
Kent	10.4 ± 2.7
Mid-Michigan ^b	10.1 ± 3.6
Ottawa	6.1 ± 2.7
Region 8	15.0 ± 3.3
District #10	12.5 ± 3.5
Muskegon	18.4 ± 6.0
Region 9	17.0 ± 3.4
District #2	21.0 ± 7.8
District #4	20.7 ± 8.1
Northwest Michigan	18.8 ± 7.5
Benzie-Leelanau	4.3 ± 4.0
Grand Traverse	13.1 ± 6.2
Region 10	10.5 ± 2.7
Bay	10.2 ± 5.9
Huron	7.7 ± 7.4
Saginaw	10.6 ± 3.9
Sanilac	15.4 ± 10.0
Tuscola	9.3 ± 6.7
Region 11	13.1 ± 3.5
Central Michigan	17.2 ± 5.0
Midland	5.5 ± 2.8

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Table 2 Cont'd	
Geographic Area	No Health Care Coverage ^a
Michigan Total	11.6 ± 0.6
Region 12	17.5 ± 4.0
Luce-Mackinac-Alger-Schoolcraft	28.6 ± 12.8
Western Upper Peninsula	20.0 ± 8.4
Delta-Menominee	10.4 ± 5.8
Chippewa	21.7 ± 11.9
Dickinson-Iron	17.4 ± 12.3
Marquette	12.5 ± 9.0
^a Among those aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 3: Weight Status by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% \pm 95% Confidence Intervals)			
Geographic Area	Obese^a	Overweight^b	Not Overweight^c
Michigan Total	24.5 \pm 0.7	36.8 \pm 0.8	38.8 \pm 0.8
Region 1	24.7 \pm 1.2	36.2 \pm 1.3	39.1 \pm 1.4
Livingston	21.1 \pm 5.7	35.2 \pm 6.6	43.7 \pm 6.8
Macomb	23.0 \pm 3.0	36.3 \pm 3.3	40.7 \pm 3.4
Monroe	25.5 \pm 6.4	40.2 \pm 7.4	34.3 \pm 7.2
Oakland	20.7 \pm 2.2	36.2 \pm 2.6	43.0 \pm 2.7
St. Clair	24.5 \pm 5.8	37.2 \pm 6.5	38.3 \pm 6.4
Washtenaw	18.3 \pm 3.8	34.0 \pm 4.7	47.7 \pm 4.9
City of Detroit	35.1 \pm 3.4	35.6 \pm 3.4	29.3 \pm 3.2
Wayne exc. Detroit	24.1 \pm 2.5	35.7 \pm 2.8	40.2 \pm 2.9
Region 2	24.8 \pm 3.0	39.0 \pm 3.5	36.2 \pm 3.5
Genesee	26.5 \pm 3.7	37.9 \pm 4.2	35.6 \pm 4.1
Lapeer	20.7 \pm 6.9	37.3 \pm 8.7	42.0 \pm 9.2
Shiawassee	20.2 \pm 7.3	47.2 \pm 9.3	32.6 \pm 8.8
Region 3	26.8 \pm 4.6	36.6 \pm 5.0	36.7 \pm 5.1
Jackson	28.2 \pm 6.1	34.9 \pm 6.3	36.9 \pm 6.6
Lenawee	24.9 \pm 6.9	38.7 \pm 7.9	36.4 \pm 7.9
Region 4	23.4 \pm 2.8	35.6 \pm 3.3	41.0 \pm 3.4
Barry-Eaton	25.7 \pm 5.6	36.0 \pm 6.2	38.4 \pm 6.2
Mid-Michigan ^d	26.3 \pm 4.9	35.2 \pm 5.4	38.5 \pm 5.5
Ingham	22.8 \pm 4.0	33.9 \pm 4.7	43.3 \pm 4.9
Region 5	26.8 \pm 3.2	37.2 \pm 3.5	36.0 \pm 3.4
Branch-Hillsdale-St. Joseph	34.1 \pm 6.4	29.8 \pm 5.6	36.0 \pm 6.0
Calhoun	30.7 \pm 6.2	42.3 \pm 6.9	27.0 \pm 5.9
Kalamazoo	18.9 \pm 4.2	39.6 \pm 5.5	41.5 \pm 5.4
Region 6	22.9 \pm 4.1	38.6 \pm 4.8	38.6 \pm 4.9
Van Buren-Cass	23.5 \pm 6.1	38.3 \pm 6.9	38.2 \pm 7.1
Berrien	22.3 \pm 5.4	38.8 \pm 6.7	39.0 \pm 6.8

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Table 3 Cont'd			
Geographic Area	Obese^a	Overweight^b	Not Overweight^c
Michigan Total	24.5 ± 0.7	36.8 ± 0.8	38.8 ± 0.8
Region 7	21.5 ± 1.9	36.2 ± 2.3	42.3 ± 2.3
Allegan	24.3 ± 6.2	36.6 ± 6.9	39.1 ± 7.2
Ionia	22.3 ± 8.3	34.2 ± 9.4	43.5 ± 10.1
Kent	20.1 ± 2.4	35.2 ± 2.9	44.7 ± 3.0
Mid-Michigan ^d	26.3 ± 4.9	35.2 ± 5.4	38.5 ± 5.5
Ottawa	18.9 ± 4.0	41.2 ± 5.3	40.0 ± 5.2
Region 8	23.6 ± 3.2	36.9 ± 3.8	39.5 ± 3.8
District #10	25.1 ± 4.2	38.2 ± 4.8	36.7 ± 4.7
Muskegon	21.3 ± 5.1	35.0 ± 6.3	43.7 ± 6.4
Region 9	25.6 ± 3.3	39.0 ± 3.7	35.3 ± 3.5
District #2	26.8 ± 7.3	44.0 ± 8.4	29.2 ± 7.3
District #4	28.4 ± 6.9	38.9 ± 7.7	32.7 ± 7.5
Northwest Michigan	25.9 ± 6.3	34.5 ± 7.0	39.6 ± 7.0
Benzie-Leelanau	20.6 ± 9.0	44.6 ± 11.5	34.8 ± 10.4
Grand Traverse	23.4 ± 7.4	37.9 ± 8.2	38.7 ± 8.0
Region 10	27.8 ± 3.5	36.9 ± 3.7	35.3 ± 3.7
Bay	26.2 ± 6.9	38.2 ± 7.4	35.6 ± 7.5
Huron	29.8 ± 10.8	37.0 ± 12.3	33.2 ± 12.3
Saginaw	31.0 ± 5.7	34.3 ± 5.5	34.7 ± 5.6
Sanilac	20.8 ± 9.6	36.6 ± 11.8	42.6 ± 12.4
Tuscola	23.6 ± 9.2	43.5 ± 10.8	32.9 ± 10.5
Region 11	24.8 ± 3.6	35.2 ± 4.2	40.0 ± 4.4
Central Michigan	25.3 ± 4.7	36.2 ± 5.4	38.5 ± 5.6
Midland	23.9 ± 5.3	33.1 ± 6.4	43.1 ± 6.9

Table 3 Cont'd			
Geographic Area	Obese ^a	Overweight ^b	Not Overweight ^c
Michigan Total	24.5 ± 0.7	36.8 ± 0.8	38.8 ± 0.8
Region 12	24.6 ± 3.6	40.0 ± 4.2	35.4 ± 4.2
Luce-Mackinac-Alger-Schoolcraft	36.6 ± 11.5	29.3 ± 9.7	34.1 ± 11.1
Western Upper Peninsula	24.3 ± 7.6	40.3 ± 8.5	35.4 ± 8.3
Delta-Menominee	30.0 ± 8.6	37.3 ± 9.1	32.7 ± 8.7
Chippewa	21.3 ± 9.7	52.7 ± 12.6	26.0 ± 10.6
Dickinson-Iron	14.7 ± 7.3	44.2 ± 11.4	41.2 ± 11.1
Marquette	20.6 ± 7.9	38.6 ± 10.4	40.8 ± 11.0
<p>Note: Body Mass Index (BMI) is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)²]. Weight and height are self-reported.</p> <p>^a The proportion whose BMI ≥ 30.0.</p> <p>^b The proportion whose BMI ≥ 25.0 and < 30.0.</p> <p>^c The proportion whose BMI was < 25.0.</p> <p>^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.</p>			

Table 4: Leisure-time Physical Activity by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% ± 95% Confidence Intervals)	
Geographic Area	No Activity^a
Michigan Total	23.5 ± 0.7
Region 1	23.8 ± 1.2
Livingston	18.8 ± 5.3
Macomb	23.4 ± 2.9
Monroe	22.4 ± 6.5
Oakland	19.6 ± 2.1
St. Clair	21.6 ± 5.0
Washtenaw	15.5 ± 3.4
City of Detroit	32.5 ± 3.2
Wayne exc. Detroit	25.0 ± 2.5
Region 2	26.1 ± 3.0
Genesee	25.7 ± 3.6
Lapeer	24.3 ± 7.3
Shiawassee	30.7 ± 8.5
Region 3	22.1 ± 4.1
Jackson	19.0 ± 4.9
Lenawee	26.4 ± 6.9
Region 4	21.3 ± 2.7
Barry-Eaton	20.9 ± 5.0
Mid-Michigan ^b	22.8 ± 4.4
Ingham	21.6 ± 4.0
Region 5	23.3 ± 2.9
Branch-Hillsdale-St. Joseph	22.3 ± 5.1
Calhoun	28.7 ± 6.0
Kalamazoo	20.9 ± 4.4

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Table 4 Cont'd	
Geographic Area	No Activity^a
Michigan Total	23.5 ± 0.7
Region 6	25.1 ± 4.2
Van Buren-Cass	27.1 ± 6.3
Berrien	23.5 ± 5.5
Region 7	20.3 ± 1.8
Allegan	19.1 ± 5.5
Ionia	29.4 ± 9.6
Kent	20.1 ± 2.4
Mid-Michigan ^b	22.8 ± 4.4
Ottawa	17.3 ± 3.9
Region 8	25.4 ± 3.3
District #10	25.1 ± 4.0
Muskegon	25.9 ± 5.6
Region 9	23.6 ± 3.2
District #2	27.6 ± 7.5
District #4	26.6 ± 6.6
Northwest Michigan	22.8 ± 6.0
Benzie-Leelanau	15.6 ± 8.4
Grand Traverse	21.0 ± 7.0
Region 10	24.7 ± 3.3
Bay	17.6 ± 5.5
Huron	22.3 ± 10.0
Saginaw	26.1 ± 5.0
Sanilac	31.6 ± 11.9
Tuscola	29.2 ± 10.5
Region 11	23.8 ± 3.7
Central Michigan	27.4 ± 5.0
Midland	16.4 ± 4.2

Table 4 Cont'd	
Geographic Area	No Activity^a
Michigan Total	23.5 ± 0.7
Region 12	24.3 ± 3.5
Luce-Mackinac-Alger-Schoolcraft	26.4 ± 9.6
Western Upper Peninsula	22.8 ± 7.2
Delta-Menominee	25.7 ± 7.8
Chippewa	20.1 ± 9.3
Dickinson-Iron	28.0 ± 9.6
Marquette	22.5 ± 8.4
^a The proportion who reported that they did not participate in any physical activities, recreation, or exercises in their leisure time (such as running, golf, or walking for exercise) within the past month. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 5: Fruit & Vegetable Consumption by Community Health Assessment Region & Local Health Department Michigan BRFS 2000, 2002, 2003 (% ± 95% Confidence Intervals)	
Geographic Area	<5 times/day^a
Michigan Total	78.1 ± 0.9
Region 1	77.7 ± 1.4
Livingston	74.5 ± 7.5
Macomb	81.1 ± 3.3
Monroe	83.5 ± 6.8
Oakland	75.5 ± 2.8
St. Clair	79.3 ± 6.5
Washtenaw	71.5 ± 5.3
City of Detroit	78.8 ± 3.7
Wayne exc. Detroit	79.3 ± 2.9
Region 2	79.1 ± 3.7
Genesee	78.1 ± 4.5
Lapeer	80.5 ± 9.0
Shiawassee	83.1 ± 8.6
Region 3	76.9 ± 5.5
Jackson	75.2 ± 7.2
Lenawee	79.5 ± 8.5
Region 4	79.6 ± 3.3
Barry-Eaton	79.6 ± 6.1
Mid-Michigan ^b	83.9 ± 4.8
Ingham	79.3 ± 4.8
Region 5	77.0 ± 3.9
Branch-Hillsdale-St. Joseph	81.1 ± 6.2
Calhoun	75.0 ± 7.4
Kalamazoo	75.1 ± 6.4

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Table 5 Cont'd	
Geographic Area	<5 times/day^a
Michigan Total	78.1 ± 0.9
Region 6	77.3 ± 5.0
Van Buren-Cass	81.0 ± 6.6
Berrien	74.3 ± 7.3
Region 7	79.9 ± 2.1
Allegan	79.8 ± 7.0
Ionia	84.2 ± 8.4
Kent	78.9 ± 2.7
Mid-Michigan ^b	83.9 ± 4.8
Ottawa	78.0 ± 5.1
Region 8	76.0 ± 4.2
District #10	75.0 ± 5.2
Muskegon	77.6 ± 6.9
Region 9	79.0 ± 3.6
District #2	79.2 ± 8.9
District #4	82.6 ± 7.2
Northwest Michigan	79.5 ± 6.4
Benzie-Leelanau	73.7 ± 11.7
Grand Traverse	76.6 ± 8.3
Region 10	81.2 ± 3.4
Bay	83.3 ± 6.4
Huron	70.5 ± 12.9
Saginaw	81.7 ± 5.4
Sanilac	85.7 ± 8.8
Tuscola	80.9 ± 9.3
Region 11	75.9 ± 4.7
Central Michigan	77.7 ± 6.1
Midland	72.0 ± 7.1

Table 5 Cont'd	
Geographic Area	<5 times/day ^a
Michigan Total	78.1 ± 0.9
Region 12	73.3 ± 4.8
Luce-Mackinac-Alger-Schoolcraft	71.0 ± 13.6
Western Upper Peninsula	71.7 ± 9.7
Delta-Menominee	79.1 ± 9.7
Chippewa ^c	—
Dickinson-Iron	73.8 ± 12.0
Marquette	66.7 ± 12.9
^a The proportion whose total reported consumption of fruits (including juice) and vegetables was less than 5 times per day. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)	

Table 6: High Blood Pressure by Community Health Assessment Region & Local Health Department Michigan BRFS 1999, 2001, 2003 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Told High Blood Pressure^a
Michigan Total	26.5 \pm 0.9
Region 1	26.6 \pm 1.5
Livingston	14.8 \pm 5.8
Macomb	24.8 \pm 3.6
Monroe	29.3 \pm 8.6
Oakland	25.9 \pm 2.9
St. Clair	27.5 \pm 7.4
Washtenaw	16.7 \pm 4.3
City of Detroit	36.7 \pm 4.4
Wayne exc. Detroit	25.1 \pm 3.1
Region 2	26.4 \pm 3.8
Genesee	28.3 \pm 4.7
Lapeer	19.1 \pm 8.1
Shiawassee	26.4 \pm 10.2
Region 3	26.5 \pm 5.7
Jackson	27.6 \pm 7.6
Lenawee	25.1 \pm 8.6
Region 4	25.7 \pm 3.7
Barry-Eaton	29.8 \pm 7.0
Mid-Michigan ^b	25.1 \pm 5.8
Ingham	24.7 \pm 5.3
Region 5	27.5 \pm 4.0
Branch-Hillsdale-St. Joseph	31.1 \pm 7.5
Calhoun	33.8 \pm 8.3
Kalamazoo	21.5 \pm 5.5

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Table 6 Cont'd	
Geographic Area	Ever Told High Blood Pressure^a
Michigan Total	26.5 ± 0.9
Region 6	32.4 ± 6.1
Van Buren-Cass	25.5 ± 8.0
Berrien	39.1 ± 8.9
Region 7	23.9 ± 2.7
Allegan	23.1 ± 7.8
Ionia	18.8 ± 9.8
Kent	21.8 ± 3.6
Mid-Michigan ^b	25.1 ± 5.8
Ottawa	28.4 ± 6.2
Region 8	25.1 ± 4.0
District #10	27.5 ± 5.4
Muskegon	21.5 ± 5.8
Region 9	27.2 ± 4.1
District #2	30.2 ± 8.7
District #4	44.9 ± 10.2
Northwest Michigan	22.5 ± 7.4
Benzie-Leelanau	19.3 ± 11.1
Grand Traverse	17.1 ± 7.5
Region 10	30.1 ± 4.4
Bay	34.6 ± 9.0
Huron ^c	—
Saginaw	27.6 ± 6.4
Sanilac ^c	27.6 ± 13.1
Tuscola	25.6 ± 12.3
Region 11	24.8 ± 4.9
Central Michigan	25.4 ± 6.1
Midland	23.8 ± 8.3

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Table 6 Cont'd	
Geographic Area	Ever Told High Blood Pressure^a
Michigan Total	26.5 ± 0.9
Region 12	27.5 ± 4.7
Luce-Mackinac-Alger-Schoolcraft	31.2 ± 12.8
Western Upper Peninsula	31.1 ± 10.3
Delta-Menominee	24.8 ± 10.2
Chippewa ^c	—
Dickinson-Iron	24.4 ± 10.9
Marquette	21.6 ± 10.6
<p>^a The proportion who said that they had ever been told by a health professional that their blood pressure was high.</p> <p>^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.</p> <p>^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)</p>	

Table 7: Cholesterol by Community Health Assessment Region & Local Health Department Michigan BRFS 1999, 2001, 2003 (% ± 95% Confidence Intervals)			
Geographic Area	Cholesterol Ever Checked ^a	Ever Told Cholesterol Was High ^b	Cholesterol Checked Within Past 5 Years ^c
Michigan Total	78.7 ± 1.0	34.5 ± 1.2	73.8 ± 1.0
Region 1	80.2 ± 1.5	33.4 ± 1.8	76.3 ± 1.6
Livingston	76.4 ± 7.9	33.1 ± 9.0	70.3 ± 8.3
Macomb	79.7 ± 3.9	38.1 ± 4.6	76.1 ± 4.1
Monroe	66.0 ± 10.3	36.5 ± 10.5	64.7 ± 10.3
Oakland	83.7 ± 2.8	35.4 ± 3.4	80.1 ± 2.9
St. Clair	79.9 ± 7.2	33.8 ± 8.8	76.6 ± 7.5
Washtenaw	83.7 ± 4.9	23.3 ± 5.5	74.0 ± 5.8
City of Detroit	76.4 ± 3.9	31.8 ± 4.8	74.5 ± 4.0
Wayne exc. Detroit	81.6 ± 3.2	33.0 ± 3.7	77.0 ± 3.4
Region 2	77.9 ± 4.1	38.9 ± 4.9	74.0 ± 4.3
Genesee	78.0 ± 4.9	41.6 ± 6.0	75.1 ± 5.0
Lapeer	69.3 ± 11.4	30.4 ± 11.2	59.9 ± 11.6
Shiawassee	88.4 ± 7.6	35.4 ± 12.6	86.2 ± 8.1
Region 3	80.2 ± 5.8	38.9 ± 7.2	72.9 ± 6.4
Jackson	86.1 ± 6.6	39.3 ± 9.4	76.7 ± 8.0
Lenawee	72.6 ± 9.9	38.3 ± 11.4	68.1 ± 10.3
Region 4	77.9 ± 3.9	33.2 ± 4.4	72.4 ± 4.1
Barry-Eaton	76.6 ± 7.3	36.2 ± 8.5	70.6 ± 7.6
Mid-Michigan ^d	79.4 ± 6.6	44.2 ± 7.9	74.0 ± 7.0
Ingham	76.7 ± 5.7	27.8 ± 6.1	71.4 ± 6.0
Region 5	80.5 ± 3.7	28.3 ± 4.5	73.3 ± 4.2
Branch-Hillsdale-St. Joseph	79.5 ± 7.0	32.4 ± 8.5	72.7 ± 7.6
Calhoun	84.3 ± 6.4	27.5 ± 8.4	78.0 ± 7.4
Kalamazoo	79.2 ± 5.8	25.8 ± 6.7	71.2 ± 6.5

Table 7 Cont'd			
Geographic Area	Cholesterol Ever Checked^a	Ever Told Cholesterol Was High^b	Cholesterol Checked Within Past 5 Years^c
Michigan Total	78.7 ± 1.0	34.5 ± 1.2	73.8 ± 1.0
Region 6	77.3 ± 6.1	29.8 ± 6.3	71.3 ± 6.4
Van Buren-Cass	74.0 ± 9.2	36.2 ± 10.2	70.4 ± 9.4
Berrien	80.3 ± 8.0	24.2 ± 7.8	72.3 ± 8.6
Region 7	78.9 ± 2.9	34.5 ± 3.4	73.2 ± 3.1
Allegan	73.6 ± 8.9	31.2 ± 10.4	65.1 ± 9.5
Ionia	85.0 ± 9.8	26.3 ± 11.8	76.2 ± 11.8
Kent	77.8 ± 4.1	32.7 ± 4.7	72.2 ± 4.4
Mid-Michigan ^d	79.4 ± 6.6	44.2 ± 7.9	74.0 ± 7.0
Ottawa	84.0 ± 5.4	36.6 ± 7.1	80.2 ± 5.9
Region 8	73.1 ± 4.7	35.8 ± 5.3	67.5 ± 4.9
District #10	73.9 ± 6.0	39.3 ± 6.9	69.6 ± 6.2
Muskegon	71.9 ± 7.6	30.5 ± 8.3	64.5 ± 8.0
Region 9	79.3 ± 4.2	33.8 ± 4.9	73.6 ± 4.5
District #2	75.5 ± 9.7	41.9 ± 11.0	70.2 ± 10.2
District #4	76.7 ± 9.2	34.4 ± 10.8	70.7 ± 9.7
Northwest Michigan	83.5 ± 7.1	29.7 ± 8.7	79.2 ± 7.6
Benzie-Leelanau	82.1 ± 12.5	— ^e	74.2 ± 14.7
Grand Traverse	78.5 ± 9.8	28.8 ± 10.8	71.8 ± 10.8
Region 10	78.1 ± 4.3	41.7 ± 5.4	72.5 ± 4.6
Bay	76.6 ± 8.8	44.9 ± 10.8	67.6 ± 9.5
Huron ^e	—	—	—
Saginaw	81.5 ± 6.4	40.0 ± 7.9	78.0 ± 6.7
Sanilac	69.2 ± 14.4	— ^e	66.7 ± 14.7
Tuscola	72.2 ± 13.3	— ^e	68.5 ± 13.7
Region 11	73.0 ± 5.8	39.3 ± 6.6	69.3 ± 5.9
Central Michigan	73.3 ± 7.0	42.9 ± 8.1	68.4 ± 7.3
Midland	72.3 ± 10.1	32.2 ± 10.9	71.0 ± 10.2

Table 7 Cont'd			
Geographic Area	Cholesterol Ever Checked ^a	Ever Told Cholesterol Was High ^b	Cholesterol Checked Within Past 5 Years ^c
Michigan Total	78.7 ± 1.0	34.5 ± 1.2	73.8 ± 1.0
Region 12	75.8 ± 5.2	36.3 ± 5.8	69.3 ± 5.4
Luce-Mackinac-Alger-Schoolcraft	79.3 ± 13.7	— ^e	74.0 ± 14.3
Western Upper Peninsula	73.4 ± 11.0	41.0 ± 12.9	68.5 ± 11.3
Delta-Menominee	80.2 ± 10.1	35.0 ± 13.1	76.5 ± 10.8
Chippewa ^e	—	—	—
Dickinson-Iron	75.3 ± 13.2	— ^e	64.6 ± 13.9
Marquette	75.7 ± 12.5	20.1 ± 10.4	64.9 ± 13.5
^a Among all respondents, the proportion who reported ever having had their cholesterol checked. ^b Among those who ever had their blood cholesterol checked, the proportion who had ever been told by a doctor, nurse, or other health professional that their cholesterol was high. ^c Among all respondents, the proportion who reported that they have had their blood cholesterol checked within the past five years. ^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^e Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)			

Table 8: Current Smoking Status by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% ± 95% Confidence Intervals)	
Geographic Area	Current Smoker^a
Michigan Total	25.0 ± 0.7
Region 1	24.6 ± 1.2
Livingston	21.6 ± 5.6
Macomb	28.1 ± 3.2
Monroe	26.4 ± 6.9
Oakland	20.4 ± 2.2
St. Clair	31.0 ± 6.1
Washtenaw	15.6 ± 3.5
City of Detroit	29.4 ± 3.2
Wayne exc. Detroit	25.6 ± 2.6
Region 2	27.3 ± 3.2
Genesee	26.8 ± 3.8
Lapeer	32.0 ± 8.4
Shiawassee	24.4 ± 8.3
Region 3	24.4 ± 4.4
Jackson	25.1 ± 5.7
Lenawee	23.6 ± 7.0
Region 4	25.6 ± 3.0
Barry-Eaton	28.8 ± 5.8
Mid-Michigan ^b	24.1 ± 4.8
Ingham	24.7 ± 4.2
Region 5	23.5 ± 3.1
Branch-Hillsdale-St. Joseph	26.2 ± 5.6
Calhoun	28.9 ± 6.5
Kalamazoo	18.2 ± 4.2

Table 8 Cont'd	
Geographic Area	Current Smoker^a
Michigan Total	25.0 ± 0.7
Region 6	25.7 ± 4.5
Van Buren-Cass	26.2 ± 6.4
Berrien	25.2 ± 6.3
Region 7	22.9 ± 2.0
Allegan	27.2 ± 6.4
Ionia	29.5 ± 9.3
Kent	23.4 ± 2.6
Mid-Michigan ^b	24.1 ± 4.8
Ottawa	17.2 ± 4.3
Region 8	28.7 ± 3.5
District #10	25.2 ± 4.2
Muskegon	33.9 ± 6.1
Region 9	28.7 ± 3.4
District #2	35.1 ± 7.9
District #4	29.6 ± 7.3
Northwest Michigan	26.8 ± 6.5
Benzie-Leelanau	12.6 ± 7.3
Grand Traverse	31.1 ± 7.7
Region 10	26.6 ± 3.4
Bay	25.8 ± 6.9
Huron	25.8 ± 11.1
Saginaw	24.6 ± 5.0
Sanilac	36.6 ± 12.6
Tuscola	27.8 ± 9.5
Region 11	26.9 ± 3.9
Central Michigan	28.0 ± 5.1
Midland	24.9 ± 5.9

Table 8 Cont'd	
Geographic Area	Current Smoker ^a
Michigan Total	25.0 ± 0.7
Region 12	22.1 ± 3.4
Luce-Mackinac-Alger-Schoolcraft	33.7 ± 10.6
Western Upper Peninsula	22.3 ± 7.2
Delta-Menominee	20.8 ± 7.5
Chippewa	21.0 ± 9.4
Dickinson-Iron	23.0 ± 8.4
Marquette	14.4 ± 6.6
^a The proportion who reported that they had ever smoked at least 100 cigarettes in their life and that they smoke cigarettes now. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 9: Diabetes by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Told Have Diabetes^a
Michigan Total	7.4 \pm 0.4
Region 1	7.7 \pm 0.7
Livingston	5.6 \pm 2.9
Macomb	5.8 \pm 1.4
Monroe	6.5 \pm 3.1
Oakland	7.5 \pm 1.4
St. Clair	9.1 \pm 3.5
Washtenaw	5.1 \pm 1.9
City of Detroit	11.8 \pm 2.1
Wayne exc. Detroit	6.7 \pm 1.3
Region 2	8.5 \pm 1.9
Genesee	9.0 \pm 2.4
Lapeer	6.4 \pm 4.3
Shiawassee	7.8 \pm 4.6
Region 3	9.3 \pm 3.1
Jackson	10.3 \pm 3.9
Lenawee	8.0 \pm 5.1
Region 4	6.1 \pm 1.5
Barry-Eaton	5.1 \pm 2.4
Mid-Michigan ^b	7.4 \pm 2.7
Ingham	6.7 \pm 2.2
Region 5	7.7 \pm 1.8
Branch-Hillsdale-St. Joseph	7.8 \pm 2.9
Calhoun	9.0 \pm 3.6
Kalamazoo	6.9 \pm 2.8

Any questions concerning these data, please contact Michelle L. Cook at MDCH
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Table 9 Cont'd	
Geographic Area	Ever Told Have Diabetes^a
Michigan Total	7.4 ± 0.4
Region 6	5.9 ± 2.0
Van Buren-Cass	6.8 ± 3.3
Berrien	5.1 ± 2.5
Region 7	5.9 ± 1.1
Allegan	4.7 ± 3.3
Ionia	9.5 ± 6.6
Kent	5.8 ± 1.2
Mid-Michigan ^b	7.4 ± 2.7
Ottawa	4.5 ± 2.1
Region 8	7.2 ± 1.8
District #10	7.2 ± 2.4
Muskegon	7.3 ± 2.7
Region 9	7.4 ± 1.8
District #2	7.4 ± 3.7
District #4	10.9 ± 4.7
Northwest Michigan	6.7 ± 3.2
Benzie-Leelanau	12.1 ± 7.2
Grand Traverse	2.4 ± 2.5 ^c
Region 10	6.9 ± 1.7
Bay	7.0 ± 3.6
Huron	5.3 ± 4.8
Saginaw	9.2 ± 3.1
Sanilac	2.9 ± 2.9
Tuscola	3.1 ± 2.8
Region 11	8.6 ± 2.2
Central Michigan	9.1 ± 2.9
Midland	7.8 ± 3.3

Table 9 Cont'd	
Geographic Area	Ever Told Have Diabetes ^a
Michigan Total	7.4 ± 0.4
Region 12	7.7 ± 2.1
Luce-Mackinac-Alger-Schoolcraft	10.5 ± 6.3
Western Upper Peninsula	9.1 ± 4.8
Delta-Menominee	8.4 ± 5.0
Chippewa	7.9 ± 6.4
Dickinson-Iron	5.8 ± 4.1
Marquette	4.4 ± 3.7
^a The proportion who reported that they had ever been told that they had diabetes (gestational diabetes excluded). ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^c 95% confidence exceeds possible limits.	

Table 10: Alcohol Consumption by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% ± 95% Confidence Intervals)		
Geographic Area	Heavy Drinking^a	Binge Drinking^b
Michigan Total	5.7 ± 0.5	18.0 ± 0.7
Region 1	5.7 ± 0.7	18.0 ± 1.2
Livingston	5.3 ± 3.4	19.0 ± 6.2
Macomb	7.9 ± 2.4	22.6 ± 3.4
Monroe	5.1 ± 3.3	21.0 ± 7.1
Oakland	5.7 ± 1.4	16.7 ± 2.2
St. Clair	8.3 ± 4.0	15.8 ± 5.3
Washtenaw	5.9 ± 2.8	16.5 ± 4.1
City of Detroit	3.6 ± 1.5	13.4 ± 2.7
Wayne exc. Detroit	5.8 ± 1.5	20.6 ± 2.6
Region 2	4.0 ± 1.7	15.2 ± 2.9
Genesee	4.2 ± 2.0	14.2 ± 3.4
Lapeer	3.9 ± 4.3 ^c	19.5 ± 7.9
Shiawassee	3.4 ± 4.1 ^c	15.5 ± 7.1
Region 3	3.5 ± 2.2	16.5 ± 4.4
Jackson	3.2 ± 2.3	17.3 ± 5.6
Lenawee	3.9 ± 4.0 ^c	15.6 ± 6.9
Region 4	7.0 ± 2.1	19.6 ± 3.2
Barry-Eaton	5.5 ± 3.3	18.1 ± 5.5
Mid-Michigan ^d	6.7 ± 3.1	19.3 ± 5.2
Ingham	6.8 ± 3.2	20.8 ± 4.9
Region 5	6.4 ± 2.1	15.9 ± 3.1
Branch-Hillsdale-St. Joseph	5.8 ± 3.1	16.4 ± 5.5
Calhoun	6.8 ± 4.0	10.9 ± 4.9
Kalamazoo	6.7 ± 3.5	18.5 ± 5.2

Table 10 Cont'd		
Geographic Area	Heavy Drinking^a	Binge Drinking^b
Michigan Total	5.7 ± 0.5	18.0 ± 0.7
Region 6	6.1 ± 2.8	16.3 ± 4.3
Van Buren-Cass	9.1 ± 5.0	22.1 ± 7.3
Berrien	3.6 ± 3.0	11.5 ± 4.9
Region 7	4.6 ± 1.1	17.1 ± 2.0
Allegan	3.7 ± 2.9	14.9 ± 6.0
Ionia	6.1 ± 5.2	15.4 ± 7.6
Kent	6.1 ± 1.7	19.2 ± 2.6
Mid-Michigan ^d	6.7 ± 3.1	19.3 ± 5.2
Ottawa	1.6 ± 1.4	12.6 ± 4.2
Region 8	5.8 ± 2.2	19.9 ± 3.5
District #10	6.0 ± 2.5	19.7 ± 4.5
Muskegon	5.6 ± 3.9	20.1 ± 5.6
Region 9	6.1 ± 2.1	17.6 ± 3.3
District #2	7.3 ± 4.6	23.5 ± 7.6
District #4	7.9 ± 5.3	16.0 ± 7.1
Northwest Michigan	5.5 ± 4.5	16.1 ± 6.4
Benzie-Leelanau	6.6 ± 5.8	13.3 ± 8.6
Grand Traverse	3.3 ± 3.2	17.2 ± 7.2
Region 10	7.1 ± 2.4	20.1 ± 3.5
Bay	9.8 ± 5.4	26.6 ± 7.9
Huron	4.0 ± 7.7 ^c	25.0 ± 13.1
Saginaw	6.1 ± 2.8	14.9 ± 4.4
Sanilac	9.3 ± 8.2	22.0 ± 11.1
Tuscola	7.0 ± 8.8 ^c	21.2 ± 10.7
Region 11	5.5 ± 2.5	21.3 ± 4.2
Central Michigan	6.3 ± 3.6	21.3 ± 5.4
Midland	4.1 ± 2.3	21.2 ± 6.5

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Table 10 Cont'd		
Geographic Area	Heavy Drinking ^a	Binge Drinking ^b
Michigan Total	5.7 ± 0.5	18.0 ± 0.7
Region 12	8.1 ± 2.5	22.2 ± 3.9
Luce-Mackinac-Alger-Schoolcraft	3.9 ± 4.1 ^c	13.4 ± 8.4
Western Upper Peninsula	8.5 ± 5.6	22.6 ± 8.3
Delta-Menominee	8.3 ± 5.3	22.8 ± 8.3
Chippewa	10.6 ± 9.0	30.1 ± 13.4
Dickinson-Iron	4.9 ± 5.1 ^c	12.3 ± 6.8
Marquette	11.8 ± 7.1	31.0 ± 10.6
^a The proportion who reported that they consumed 60 or more alcoholic drinks in the past month. ^b The proportion who reported consuming five or more drinks on one occasion at least once in the past month. ^c 95% confidence exceeds possible limits. ^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.		

Table 11: Immunizations Among Adults Aged 65 Years and Older by Community Health Assessment Region Michigan BRFS 1999, 2001, 2002, 2003 (% ± 95% Confidence Intervals)		
Geographic Area	No Flu Shot in Past Year^a	Never Had a Pneumonia Shot^b
Michigan Total	33.9 ± 1.9	39.1 ± 2.0
Region 1	35.9 ± 3.3	40.1 ± 3.4
Region 2	38.3 ± 9.0	45.0 ± 9.3
Region 3	26.3 ± 9.6	36.6 ± 10.6
Region 4	29.9 ± 8.1	38.6 ± 8.8
Region 5	29.1 ± 6.9	37.7 ± 7.6
Region 6	32.6 ± 10.9	41.1 ± 11.5
Region 7	30.9 ± 5.1	35.4 ± 5.4
Region 8	33.2 ± 8.5	35.2 ± 8.6
Region 9	30.8 ± 6.8	34.8 ± 7.1
Region 10	36.8 ± 8.6	47.0 ± 9.0
Region 11	28.2 ± 8.4	32.0 ± 8.6
Region 12	39.5 ± 9.1	39.6 ± 9.2
Note: Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50) ^a Among those aged 65 years and older, the proportion who reported that they had not had a flu shot in the past year. ^b Among those aged 65 years and older, the proportion who reported that had never had a pneumonia shot.		

Table 12: HIV Testing by Community Health Assessment Region & Local Health Department Michigan BRFS 1999-2003 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Had an HIV Test^a
Michigan Total	45.6 \pm 0.9
Region 1	49.1 \pm 1.5
Livingston	40.9 \pm 7.2
Macomb	46.4 \pm 3.8
Monroe	38.7 \pm 7.8
Oakland	45.5 \pm 3.0
St. Clair	42.3 \pm 7.0
Washtenaw	47.9 \pm 5.2
City of Detroit	62.9 \pm 3.7
Wayne exc. Detroit	48.6 \pm 3.2
Region 2	44.1 \pm 3.8
Genesee	45.1 \pm 4.6
Lapeer	40.3 \pm 9.4
Shiawassee	43.0 \pm 10.3
Region 3	40.1 \pm 5.8
Jackson	43.7 \pm 7.8
Lenawee	36.0 \pm 8.7
Region 4	44.0 \pm 3.7
Barry-Eaton	47.2 \pm 7.1
Mid-Michigan ^b	40.7 \pm 6.0
Ingham	43.5 \pm 5.2
Region 5	46.2 \pm 4.0
Branch-Hillsdale-St. Joseph	42.3 \pm 7.0
Calhoun	47.3 \pm 7.7
Kalamazoo	48.5 \pm 6.1

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Table 12 Cont'd	
Geographic Area	Ever Had an HIV Test^a
Michigan Total	45.6 ± 0.9
Region 6	49.7 ± 5.6
Van Buren-Cass	54.7 ± 8.1
Berrien	45.5 ± 7.7
Region 7	41.2 ± 2.5
Allegan	38.4 ± 7.9
Ionia	41.7 ± 10.8
Kent	43.4 ± 3.3
Mid-Michigan ^b	40.7 ± 6.0
Ottawa	37.8 ± 5.7
Region 8	42.5 ± 4.3
District #10	39.0 ± 5.4
Muskegon	47.3 ± 7.0
Region 9	47.3 ± 4.3
District #2	38.7 ± 9.4
District #4	38.1 ± 8.9
Northwest Michigan	53.0 ± 8.2
Benzie-Leelanau	47.1 ± 13.0
Grand Traverse	56.0 ± 8.9
Region 10	39.2 ± 4.2
Bay	40.5 ± 8.5
Huron	23.5 ± 11.5
Saginaw	42.0 ± 6.4
Sanilac	45.0 ± 14.1
Tuscola	34.6 ± 11.0
Region 11	37.2 ± 4.9
Central Michigan	37.7 ± 6.5
Midland	36.1 ± 7.1

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Table 12 Cont'd	
Geographic Area	Ever Had an HIV Test^a
Michigan Total	45.6 ± 0.9
Region 12	42.9 ± 4.8
Luce-Mackinac-Alger-Schoolcraft	44.5 ± 12.7
Western Upper Peninsula	42.7 ± 10.2
Delta-Menominee	41.3 ± 9.9
Chippewa	51.3 ± 13.9
Dickinson-Iron	46.9 ± 13.2
Marquette	35.7 ± 10.9
^a The proportion who reported that they had ever been tested for HIV, apart from tests that were part of a blood donation. ^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.	

Table 13: Asthma by Community Health Assessment Region & Local Health Department Michigan BRFS 2000-2003 (% \pm 95% Confidence Intervals)		
Geographic Area	Ever Told Have Asthma^a	Still Have Asthma^b
Michigan Total	12.5 \pm 0.6	8.7 \pm 0.5
Region 1	13.4 \pm 1.0	9.1 \pm 0.9
Livingston	11.2 \pm 4.4	8.8 \pm 4.0
Macomb	13.5 \pm 2.6	8.3 \pm 2.0
Monroe	12.9 \pm 5.4	10.8 \pm 5.0
Oakland	13.9 \pm 2.1	9.8 \pm 1.8
St. Clair	11.2 \pm 5.1	7.6 \pm 4.5
Washtenaw	16.4 \pm 4.0	11.6 \pm 3.4
City of Detroit	14.5 \pm 2.6	9.4 \pm 2.2
Wayne exc. Detroit	11.9 \pm 2.1	8.1 \pm 1.7
Region 2	14.1 \pm 2.8	9.5 \pm 2.3
Genesee	14.8 \pm 3.4	10.0 \pm 2.8
Lapeer	13.6 \pm 7.4	7.4 \pm 5.3
Shiawassee	11.4 \pm 6.7	8.9 \pm 6.3
Region 3	13.0 \pm 3.8	11.7 \pm 3.7
Jackson	12.9 \pm 4.8	11.7 \pm 4.7
Lenawee	13.0 \pm 6.3	11.8 \pm 6.1
Region 4	13.7 \pm 2.5	10.4 \pm 2.3
Barry-Eaton	11.2 \pm 4.7	8.7 \pm 4.3
Mid-Michigan ^c	11.0 \pm 3.7	9.5 \pm 3.5
Ingham	16.9 \pm 3.9	12.3 \pm 3.4
Region 5	11.1 \pm 2.3	8.1 \pm 2.0
Branch-Hillsdale-St. Joseph	10.4 \pm 4.0	7.7 \pm 3.6
Calhoun	10.5 \pm 4.0	7.3 \pm 3.2
Kalamazoo	11.9 \pm 3.9	8.9 \pm 3.4

Any questions concerning these data, please contact Michelle L. Cook at MDCH
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Table 13 Cont'd		
Geographic Area	Ever Told Have Asthma ^a	Still Have Asthma ^b
Michigan Total	12.5 ± 0.6	8.7 ± 0.5
Region 6	10.5 ± 3.2	6.2 ± 2.3
Van Buren-Cass	10.8 ± 5.2	5.5 ± 3.4
Berrien	10.2 ± 4.0	6.9 ± 3.2
Region 7	10.1 ± 1.5	7.1 ± 1.3
Allegan	7.8 ± 4.2	6.2 ± 3.8
Ionia	14.2 ± 8.5	9.0 ± 7.4
Kent	9.8 ± 1.7	6.5 ± 1.4
Mid-Michigan ^c	11.0 ± 3.7	9.5 ± 3.5
Ottawa	10.4 ± 3.4	7.1 ± 2.8
Region 8	10.0 ± 2.3	6.5 ± 1.8
District #10	11.2 ± 3.0	7.9 ± 2.5
Muskegon	8.3 ± 3.4	4.4 ± 2.3
Region 9	14.0 ± 2.8	9.6 ± 2.3
District #2	20.6 ± 7.8	12.2 ± 5.9
District #4	14.1 ± 5.9	11.1 ± 5.3
Northwest Michigan	13.4 ± 5.1	9.2 ± 4.3
Benzie-Leelanau	6.9 ± 5.5	5.6 ± 5.0
Grand Traverse	11.2 ± 5.6	7.8 ± 4.9
Region 10	12.0 ± 2.7	7.9 ± 2.3
Bay	14.2 ± 5.3	9.7 ± 4.4
Huron	10.8 ± 9.2	7.9 ± 8.6 ^d
Saginaw	8.8 ± 3.4	5.6 ± 2.7
Sanilac	9.0 ± 7.9	5.2 ± 6.2 ^d
Tuscola	21.5 ± 10.5	14.2 ± 9.6
Region 11	12.2 ± 3.0	8.7 ± 2.6
Central Michigan	11.9 ± 3.8	8.5 ± 3.4
Midland	12.8 ± 4.4	9.2 ± 4.0

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Table 13 Cont'd		
Geographic Area	Ever Told Have Asthma ^a	Still Have Asthma ^b
Michigan Total	12.5 ± 0.6	8.7 ± 0.5
Region 12	11.1 ± 2.8	7.9 ± 2.3
Luce-Mackinac-Alger-Schoolcraft	18.2 ± 9.7	12.2 ± 7.7
Western Upper Peninsula	7.5 ± 4.8	5.3 ± 4.0
Delta-Menominee	10.4 ± 5.7	8.4 ± 5.3
Chippewa	7.9 ± 7.7	7.9 ± 7.7
Dickinson-Iron	8.0 ± 5.7	5.3 ± 4.6
Marquette	15.0 ± 7.7	9.3 ± 5.5
^a Proportion who reported that they had ever been told they have asthma. ^b Proportion who reported that they still have asthma. ^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate. ^d 95% confidence exceeds possible limits.		

Table 14: Colorectal Cancer Screening Among Adults Aged 50 Years and Older by Community Health Assessment Region & Local Health Department Michigan BRFS 1999, 2001, 2002 (% ± 95% Confidence Intervals)		
Geographic Area	Ever Had a Blood Stool Test^a	Had a Blood Stool Test in Past 2 Years^b
Michigan Total	52.3 ± 1.6	35.2 ± 1.5
Region 1	47.5 ± 2.6	31.9 ± 2.5
Livingston	56.6 ± 14.0	43.9 ± 14.1
Macomb	47.3 ± 6.4	31.6 ± 6.1
Monroe ^c	—	—
Oakland	52.7 ± 5.0	32.7 ± 4.7
St. Clair	44.5 ± 12.4	18.6 ± 9.3
Washtenaw	47.9 ± 9.8	36.7 ± 9.3
City of Detroit	43.5 ± 6.7	33.7 ± 6.5
Wayne exc. Detroit	46.5 ± 5.5	31.6 ± 5.1
Region 2	49.3 ± 6.6	29.2 ± 5.9
Genesee	51.8 ± 8.3	31.1 ± 7.4
Lapeer ^c	—	—
Shiawassee	39.4 ± 13.9	23.2 ± 11.8
Region 3	53.6 ± 9.2	30.5 ± 8.3
Jackson	59.9 ± 11.4	35.5 ± 10.9
Lenawee	44.9 ± 14.9	23.6 ± 12.7
Region 4	61.7 ± 6.5	45.0 ± 6.7
Barry-Eaton	62.1 ± 11.5	49.7 ± 11.8
Mid-Michigan ^d	60.2 ± 11.1	40.7 ± 11.3
Ingham	60.4 ± 9.5	42.8 ± 9.7
Region 5	50.8 ± 6.3	38.1 ± 6.3
Branch-Hillsdale-St. Joseph	45.9 ± 10.6	32.7 ± 9.9
Calhoun	46.9 ± 12.0	33.0 ± 11.3
Kalamazoo	58.0 ± 9.9	46.6 ± 10.5

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Table 14 Cont'd		
Geographic Area	Ever Had a Blood Stool Test^a	Had a Blood Stool Test in Past 2 Years^b
Michigan Total	52.3 ± 1.6	35.2 ± 1.5
Region 6	49.4 ± 9.0	35.3 ± 8.7
Van Buren-Cass	54.4 ± 13.4	38.7 ± 13.2
Berrien	45.8 ± 12.0	32.8 ± 11.4
Region 7	62.3 ± 4.3	43.8 ± 4.4
Allegan	65.8 ± 12.7	44.2 ± 13.2
Ionia ^c	—	—
Kent	61.3 ± 5.1	44.2 ± 5.4
Mid-Michigan ^d	60.2 ± 11.1	40.7 ± 11.3
Ottawa	65.5 ± 10.5	45.6 ± 10.8
Region 8	53.8 ± 6.7	34.7 ± 6.4
District #10	52.3 ± 8.1	36.0 ± 7.8
Muskegon	56.6 ± 12.0	32.2 ± 11.0
Region 9	57.6 ± 6.2	38.2 ± 6.1
District #2	56.1 ± 12.5	34.7 ± 12.1
District #4	52.9 ± 12.5	40.2 ± 12.2
Northwest Michigan	60.7 ± 11.8	41.7 ± 11.9
Benzie-Leelanau ^c	—	—
Grand Traverse ^c	—	—
Region 10^e	54.3 ± 6.9	35.4 ± 6.5
Region 11	55.8 ± 7.1	36.4 ± 6.9
Central Michigan	54.2 ± 9.5	34.9 ± 9.1
Midland	59.2 ± 9.8	39.5 ± 9.9
Region 12^e	52.2 ± 7.3	33.2 ± 7.1
^a Among those aged 50 years and older, the proportion who said that they had ever used a blood stool test using a home kit.		
^b Among those aged 50 years and older, the proportion who reported that they had a blood stool test using a home kit in the last two years.		
^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)		
^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.		
^e Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50)		

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Table 15: Prostate Cancer Screening Among Men Aged 50 Years and Older by Community Health Assessment Region Michigan BRFS 1999, 2001, 2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Ever Had a PSA Test^a
Michigan Total	74.3 \pm 2.2
Region 1	74.7 \pm 3.7
Region 2	73.6 \pm 10.1
Region 3	74.5 \pm 12.3
Region 4	74.1 \pm 8.9
Region 5	68.8 \pm 9.3
Region 6	62.5 \pm 14.3
Region 7	79.9 \pm 5.5
Region 8	72.0 \pm 8.9
Region 9	76.4 \pm 8.5
Region 10	80.3 \pm 8.2
Region 11	82.9 \pm 8.6
Region 12	61.5 \pm 10.9
Note: Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50) ^a Among those men aged 50 years and older, the proportion who reported that they had ever had a prostate-specific antigen (PSA) blood test.	

Table 16: Breast Cancer Screening Among Women Aged 40 Years and Older by Community Health Assessment Region Michigan BRFS 1998-2000, 2002 (% \pm 95% Confidence Intervals)	
Geographic Area	Had Clinical Breast Exam & Mammography in Last Year^a
Michigan Total	55.2 \pm 1.7
Region 1	54.5 \pm 2.7
Region 2	60.9 \pm 6.4
Region 3	59.0 \pm 9.7
Region 4	59.3 \pm 6.7
Region 5	49.2 \pm 6.5
Region 6	49.3 \pm 9.4
Region 7	53.4 \pm 4.5
Region 8	55.2 \pm 7.5
Region 9	59.3 \pm 6.9
Region 10	56.3 \pm 7.6
Region 11	55.1 \pm 8.1
Region 12	55.2 \pm 7.6
Note: 2002 data included diagnostic tests; data from 1998-2000 excluded diagnostic tests. Note: Sample sizes were too small to compute prevalence estimates by local health departments. (Sample size < 50) ^a Among women aged 40 years and older, the proportion who had both a clinical breast exam and mammogram in the past year.	

Table 17: Cervical Cancer Screening Among Adult Women Aged 18 Years and Older by Community Health Assessment Region & Local Health Department Michigan BRFS 1998-2000, 2002 (% ± 95% Confidence Intervals)	
Geographic Area	Had Pap Test in Last 3 Years^a
Michigan Total	85.4 ± 1.0
Region 1	85.4 ± 1.5
Livingston	84.0 ± 8.5
Macomb	86.6 ± 3.4
Monroe	84.1 ± 7.8
Oakland	88.4 ± 2.8
St. Clair	81.4 ± 7.8
Washtenaw	82.5 ± 5.8
City of Detroit	86.9 ± 3.4
Wayne exc. Detroit	82.5 ± 3.7
Region 2	83.7 ± 4.1
Genesee	84.7 ± 4.5
Lapeer	74.6 ± 15.6
Shiawassee	85.9 ± 9.1
Region 3	84.3 ± 6.2
Jackson	86.5 ± 7.4
Lenawee	81.0 ± 10.8
Region 4	90.0 ± 3.3
Barry-Eaton	89.3 ± 6.9
Mid-Michigan ^b	89.0 ± 5.8
Ingham	89.5 ± 4.5
Region 5	85.3 ± 3.9
Branch-Hillsdale-St. Joseph	86.6 ± 6.4
Calhoun	80.2 ± 8.2
Kalamazoo	87.4 ± 5.8

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Table 17 Cont'd	
Geographic Area	Had Pap Test in Last 3 Years^a
Michigan Total	85.4 ± 1.0
Region 6	80.7 ± 5.7
Van Buren-Cass	84.5 ± 7.5
Berrien	77.4 ± 8.5
Region 7	86.1 ± 2.5
Allegan	84.2 ± 8.8
Ionia	84.3 ± 10.7
Kent	85.5 ± 3.2
Mid-Michigan ^b	89.0 ± 5.8
Ottawa	89.6 ± 5.1
Region 8	83.4 ± 4.5
District #10	79.6 ± 6.2
Muskegon	88.4 ± 6.3
Region 9	87.2 ± 3.8
District #2	78.8 ± 11.7
District #4	90.2 ± 7.0
Northwest Michigan	83.2 ± 8.4
Benzie-Leelanau ^c	—
Grand Traverse	91.3 ± 6.4
Region 10^c	87.0 ± 4.0
Region 11	83.9 ± 4.7
Central Michigan	83.0 ± 6.2
Midland	85.8 ± 6.1
Region 12^c	83.1 ± 5.6
<p>Note: 2002 data included diagnostic tests; data from 1998-2000 excluded diagnostic tests.</p> <p>^a Among women aged 18 years and older, the proportion who had a Pap test within the last 3 years.</p> <p>^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate.</p> <p>^c Sample size was too small to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate. (Sample size < 50)</p>	

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